RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _	09/753, 008 A
Source:	TFW16
Date Processed by STIC: _	12/14/2005

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 12/14/2005 PATENT APPLICATION: US/09/753,008A TIME: 12:15:52

Input Set : A:\96700-658.txt

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Output Set: N:\CRF4\12142005\I753008A.raw
     3 <110> APPLICANT: Somlo, Stefan
            Mochizuki, Toshio
     6 <120> TITLE OF INVENTION: POLYCYSTIC KIDNEY DISEASE PKD2 GENE AND USES
THEREOF
     8 <130> FILE REFERENCE: 96700/658
    10 <140> CURRENT APPLICATION NUMBER: 09/753,008A
    11 <141> CURRENT FILING DATE: 2001-01-02
    13 <150> PRIOR APPLICATION NUMBER: 08/651,999
    14 <151> PRIOR FILING DATE: 1996-05-23
    16 <150> PRIOR APPLICATION NUMBER: 09/385,752
    17 <151> PRIOR FILING DATE: 1999-08-30
    19 <160> NUMBER OF SEQ ID NOS: 15
    21 <170> SOFTWARE: PatentIn version 3.3
    23 <210> SEQ ID NO: 1
    24 <211> LENGTH: 866
    25 <212> TYPE: PRT
    26 <213> ORGANISM: Homo sapiens
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    30 <221> NAME/KEY: misc feature
    31 <222> LOCATION: (384)..(384)
    32 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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    49 <220> FEATURE:
    50 <221> NAME/KEY: misc feature
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52 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

57 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

51 <222> LOCATION: (547)..(547)

55 <221> NAME/KEY: misc_feature 56 <222> LOCATION: (586)..(588)

60 <221> NAME/KEY: misc_feature 61 <222> LOCATION: (849)..(849)

54 <220> FEATURE:

59 <220> FEATURE:

RAW SEQUENCE LISTING DATE: 12/14/2005
PATENT APPLICATION: US/09/753,008A TIME: 12:15:52

Input Set : A:\96700-658.txt

Output Set: N:\CRF4\12142005\1753008A.raw

62 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid 64 <400> SEQUENCE: 1 66 Met Val Asn Ser Ser Arg Val Gln Pro Gln Gln Pro Gly Asp Ala Lys 70 Arg Pro Pro Ala Pro Arg Ala Pro Asp Pro Gly Arg Leu Met Ala Gly 74 Cys Ala Ala Val Gly Ala Ser Leu Ala Ala Pro Gly Gly Leu Cys Glu 40 78 Gln Arg Gly Leu Glu Ile Glu Met Gln Arg Ile Arg Gln Ala Ala Ala 55 82 Arg Asp Pro Pro Ala Gly Ala Ala Ser Pro Ser Pro Pro Leu Ser 70 75 86 Ser Cys Ser Arg Gln Ala Trp Ser Arg Asp Asn Pro Gly Glu Glu Glu 94 Val Glu Met Asp Val Glu Trp Arg Pro Gly Ser Arg Arg Ser Ala Ala 120 98 Ser Ser Ala Val Ser Ser Val Gly Ala Arg Ser Arg Gly Leu Gly Gly 135 102 Tyr His Gly Ala Gly His Pro Ser Gly Arg Arg Arg Arg Glu Asp 150 155 106 Gln Gly Pro Pro Cys Pro Ser Pro Val Gly Gly Asp Pro Leu His 165 170 110 Arg His Leu Pro Leu Glu Gly Gln Pro Pro Arg Val Ala Trp Ala Glu 180 185 114 Arg Leu Val Arg Gly Leu Arg Gly Leu Trp Gly Thr Arg Leu Met Glu 200 118 Glu Ser Ser Thr Asn Arg Glu Lys Tyr Leu Lys Ser Val Leu Arg Glu 215 122 Leu Val Thr Tyr Leu Leu Phe Leu Ile Val Leu Cys Ile Leu Thr Tyr 235 126 Gly Thr Glu Ala Asp Asn Arg Ser Phe Ile Phe Tyr Glu Asn Leu Leu 250 245 130 Leu Gly Val Pro Arg Ile Arg Gln Leu Arg Val Arg Asn Gly Ser Cys 265 134 Ser Ile Pro Gln Asp Leu Arg Asp Glu Ile Lys Glu Cys Tyr Asp Val 275 280 138 Tyr Glu Thr Ala Ala Gln Val Ala Ser Leu Lys Lys Asn Val Trp Leu 295 142 Asp Arg Gly Thr Arg Ala Thr Phe Ile Asp Phe Ser Val Tyr Asn Ala 310 315 146 Asn Ile Asn Leu Phe Cys Val Val Arg Leu Leu Val Glu Phe Pro Ala 330 325 150 Thr Gly Gly Val Ile Pro Ser Trp Gln Phe Gln Pro Leu Lys Leu Ile 345 154 Arg Tyr Val Thr Thr Phe Asp Phe Phe Leu Ala Ala Cys Glu Ile Ile 355 360 W--> 158 Phe Cys Phe Phe Ile Phe Tyr Tyr Val Val Glu Glu Ile Leu Glu Xaa

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Input Set : A:\96700-658.txt

Output Set: N:\CRF4\12142005\I753008A.raw

	159		370					375	*				380				
W>		TIO		T1.	wi a	T ***	T 011		Ф	Dho	λ 	Vaa		Pho	T	λan	Crea
W>		385	Arg	TIE	uis	гуя	390	UIR	IYE	Pne	Arg	395	ser	FIIE	пр	WRII	400
			Acn	V=1	Val	Tla	Val	v-1	T.011	Sar	17a1		Δla	Tla	G1 _V	т1Д	
	167	шец	пор	vai	vai	405	Vai	Val	<u> </u>	DCI	410	vai	1114	110	O ₂ y	415	71011
W>		Tle	Tur	Ara	Thr		Agn	Val	Glu	Val		T. 6 11	T.eu	Gln	Phe		Xaa
W>	171	116	-1-	n-9	420	561	non	741	GIG	425	naa	Tea	200	01	430	200	1144
		Glu	Asp	Gln		Thr	Phe	Pro	Asn		Glu	His	Leu	Ala		Trp	Gln
	175			435					440					445	-1-		
		Ile	Gln		Asn	Asn	Ile	Ala		Val	Thr	Val	Phe	Phe	Val	Trp	Ile
	179		450					455					460			_	
	182	Lys	Leu	Phe	Lys	Phe	Ile	Asn	Phe	Asn	Arq	Thr	Met	Ser	Gln	Leu	Ser
		465			•		470				_	475					480
	186	Thr	Thr	Met	Ser	Arg	Cys	Ala	Lys	Asp	Leu	Phe	Gly	Phe	Ala	Ile	Met
	187					485	_		-	_	490					495	
	190	Phe	Phe	Ile	Ile	Phe	Leu	Ala	Tyr	Ala	Gln	Leu	Ala	Tyr	Leu	Val	Phe
	191				500					505					510		
	194	Gly	Thr	Gln	Val	Asp	Asp	Phe	Ser	Thr	Phe	Gln	Glu	Cys	Ile	Phe	Thr
	195			515					520					525			
	198	Gln	Phe	Arg	Ile	Ile	Leu	Gly	Asp	Ile	Asn	Phe	Ala	Glu	Ile	Glu	Glu
	199		530					535					540				
M>			Asn	Xaa	Arg	Val		Gly	Pro	Ile	Tyr		Thr	Thr	Phe	Val	
		545					550	_	_			555				_	560
		Phe	Met	Phe	Phe		Leu	Leu	Asn	Met		Leu	Ala	Ile	Ile		Asp
	207		_	_		565	_	_	_	_	570				~ 3 ·	575	
M>		Thr	Tyr	ser		vaı	гàв	ser	Asp		хаа	xaa	хаа	Ala		Gin	гля
	211	71-	~1	Mot	580	T 011	Com	7 000	T 011	585	7. ~~~	T	C1	Tr	590	Tera	הות
	214	Ala	GIU	595	GIU	ьеи	Ser	Asp	600	11e	Arg	ьув	GIY	605	птр	гля	Ата
		T.011	1721		T.e.11	Larg	Leu	Luc		Δen	Thr	₩a1	Δen		Tla	Ser	Glu
	219	неи	610	цуз	пец	цуз	пеа	615	цуз	ASII	1111	vai	620	ASP	116	Der	GIU
		Ser		Ara	Gln	Glv	Gly		Lvs	Len	Asn	Phe		Glu	Len	Ara	Gln
		625		5		 1	630	<i>1</i>	-1-			635				5	640
			Leu	Lys	Gly	Lys	Gly	His	Thr	Asp	Ala		Ile	Glu	Ala	Ile	
	227	-		•	•	645	•			-	650					655	
	230	Thr	Lys	Tyr	Asp	Gln	Asp	Gly	Asp	Gln	Glu	Leu	Thr	Glu	His	Glu	His
	231		-	-	660		_	_	_	665					670		
	234	${\tt Gln}$	${\tt Gln}$	Met	Arg	Asp	Asp	Leu	Glu	Lys	Glu	Arg	Glu	Asp	Leu	Asp	Leu
	235			675					680					685			
	238	Asp	His	Ser	Ser	Leu	Pro	Arg	Pro	Met	Ser	Ser	Arg	Ser	Phe	Pro	Arg
	239		690					695					700				
	242	Ser	Leu	Asp	Asp	Ser	Glu	Glu	Asp	Asp	Asp	Glu	Asp	Ser	Gly	His	Ser
		705					710					715					720
	246	Ser	Arg	Arg	Arg	Gly	Ser	Ile	Ser	Ser	Gly	Val	Ser	\mathtt{Tyr}	Glu		Phe
	247					725					730					735	
		Gln	Val	Leu		Arg	Arg	Val	Asp	_	Met	Glu	His	Ser		Gly	Ser
	251			_	740		_			745		_	_		750		
		Ile	Val		Lys	Ile	Asp	Ala		Ile	Val	Lys	Leu		Ile	Met	Glu
	255			755					760					765			

RAW SEQUENCE LISTING DATE: 12/14/2005 PATENT APPLICATION: US/09/753,008A TIME: 12:15:52 Input Set : A:\96700-658.txt Output Set: N:\CRF4\12142005\I753008A.raw

- 258 Arg Ala Lys Leu Lys Arg Arg Glu Val Leu Gly Arg Leu Leu Asp Gly 775 262 Val Ala Glu Asp Glu Arg Leu Gly Arg Asp Ser Glu Ile His Arg Glu 790 795 266 Gln Met Glu Arg Leu Val Arg Glu Glu Leu Glu Arg Trp Glu Ser Asp 805 810 270 Asp Ala Ala Ser Gln Ile Ser His Gly Leu Gly Thr Pro Val Gly Leu 820 825 274 Asn Gly Gln Pro Arg Pro Arg Ser Ser Arg Pro Ser Ser Ser Gln Ser 275 835 840 W--> 278 Xaa Thr Glu Gly Met Glu Gly Ala Gly Gly Asn Gly Ser Ser Asn Val 850 279 855 860 282 His Val 283 865 286 <210> SEQ ID NO: 2 287 <211> LENGTH: 523
 - 288 <212> TYPE: PRT 289 <213> ORGANISM: Homo sapiens
 - 292 <220> FEATURE: 293 <221> NAME/KEY: misc feature 294 <222> LOCATION: (46)..(46)
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 - 315 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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 - 322 <220> FEATURE:
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 - 325 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 - 327 <220> FEATURE:
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 - 329 <222> LOCATION: (437)..(440)

RAW SEQUENCE LISTING DATE: 12/14/2005
PATENT APPLICATION: US/09/753,008A TIME: 12:15:52

Input Set : A:\96700-658.txt

Output Set: N:\CRF4\12142005\1753008A.raw

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330 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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    339 Phe Leu Ala Lys Glu Glu Ala Arg Lys Val Lys Arg Leu His Gly Met
    343 Leu Arg Ser Leu Leu Val Tyr Met Leu Phe Leu Leu Val Thr Leu Leu
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W--> 347 Ala Ser Tyr Gly Asp Ala Ser Cys His Gly His Ala Tyr Xaa Arg Leu
         35
                                  40
W--> 351 Gln Ser Xaa Xaa Xaa Xaa Ala Ile Lys Gln Glu Leu His Ser Arg
    355 Ala Phe Leu Ala Ile Thr Arg Ser Glu Glu Leu Trp Pro Trp Met Ala
W--> 359 His Val Leu Leu Pro Tyr Val His Xaa Xaa Xaa Xaa Gly Asn Gln
100
                                      105
    367 Gly Pro Pro Arg Leu Arg Gln Val Arg Leu Gln Glu Ala Leu Tyr Pro
                                  120
    371 Asp Pro Pro Gly Pro Arg Val His Thr Cys Ser Ala Ala Gly Gly Phe
                               135
    375 Ser Thr Ser Asp Tyr Asp Val Gly Trp Glu Ser Pro His Asn Gly Ser
    376 145
                           150
                                              155
W--> 379 Gly Thr Trp Ala Thr Xaa Xaa Ser Ala Pro Asp Leu Leu Gly Ala Trp
                       165
                                          170
    383 Ser Trp Gly Ser Cys Ala Val Tyr Asp Ser Gly Gly Tyr Val Gln Glu
                                       185
    387 Leu Gly Leu Ser Leu Glu Glu Ser Arg Asp Arg Leu Arg Phe Leu Gln
                                   200
    391 Leu His Asn Trp Leu Asp Asn Arg Ser Arg Ala Val Phe Leu Glu Leu
                               215
                                                  220
    395 Thr Arg Tyr Ser Pro Ala Val Gly Leu His Ala Ala Val Thr Leu Arg
                           230
                                              235
    399 Leu Glu Phe Pro Ala Ala Gly Arg Ala Leu Ala Ala Leu Ser Val Arg
                       245
                                          250
    403 Pro Phe Ala Leu Arg Arg Leu Ser Ala Gly Leu Ser Leu Pro Leu Leu
                  260
                                      265
    407 Thr Ser Val Cys Leu Leu Phe Ala Val His Phe Ala Val Ala Glu
               275
                                  280
W--> 411 Ala Arg Thr Trp Xaa His Arg Glu Gly Arg Trp Arg Val Leu Arg Leu
                               295
    415 Gly Ala Trp Ala Arg Trp Leu Leu Val Ala Leu Thr Ala Ala Thr Ala
                           310
                                              315
W--> 419 Leu Val Arg Leu Ala Gln Leu Gly Ala Ala Asp Arg Gln Xaa Xaa Trp
    423 Thr Arg Phe Val Arg Gly Arg Pro Arg Arg Phe Thr Ser Phe Asp Gln
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/753,008A

DATE: 12/14/2005 TIME: 12:15:53

Input Set : A:\96700-658.txt

Output Set: N:\CRF4\12142005\1753008A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>

to <223> fields of éach, sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 384/395,426,432,541,586,587,588,849

Seq#:2; Xaa Pos. 46,51,52,53,54,55,89,90,91,52,92,101,102,103,104,105,106

Seq#:2; Xaa Pos. 107,108,109,110,111,166,167,293,334,335,431,438,439,440

Seq#:2; Xaa Pos. 511,512,513,514,515,516,517

Seq#:3; Xaa Pos. 62,363,364,365,366,367

Seq#:4; Xaa Pos. 24,55,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,78,79

Seq#:4; Xaa Pos. 80,81,82,83,84,85,86,87,88,163,173,211,212,213,214,215,216

Seq#:4; Xaa Pos. 217,218,219,220,221,222,223,224,225,226,227,228,229,230

Seq#:4; Xaa Pos. 231,232,233,234,235,236,237,238,239,240,241,242,243,244

Seq#:4; Xaa Pos. 245,246,247,248,249,250,251,252,253,254,255,256,257,258

Seq#:4; Xaa Pos. 3995,3996,3997,4906,4923,4932,4995,5028,5056

Seq#:13; N Pos. 11

Seq#:14; N Pos. 4

Seq#:15; N Pos. 10

DATE: 12/14/2005

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/753,008A TIME: 12:15:53

Input Set : A:\96700-658.txt

Output Set: N:\CRF4\12142005\1753008A.raw

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L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:368
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:384
L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:416
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:544
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:576
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:848
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:32
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:48
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:80
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:96
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:160
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:288
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:320
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:432
L:463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:496
L:467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:512
L:501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:48
L:577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:352
L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16
L:649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:48
L:653 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:64
L:657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:80
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:160
L:689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:208
L:693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:224
L:697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:240
L:701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:256
L:705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:272
L:918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:3960
L:948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:4860
L:950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:4920
L:952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:4980
L:954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:5040
L:1265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:1280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:1295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
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